

TABLE 1

DLPPFC-MDD		Chromosome Location
GenBank Accession#	Gene Description	<u>OMIM</u>
NM19644	Early growth response protein 1 (EGR1) human Insulin-like growth factor binding protein 5 (IGFBP5)	<u>EGR1</u> <u>IGFBP5</u>
NM599	Fibroblast growth factor receptor k-sam, S plice 3 (k-sam-III)	<u>k-sam-III</u>
M87771	H sapiens Mitogen-inducible gene (mig-2) human Novel growth factor receptor (FGFR3)	14q22.1 4p16.3
Z224725	human Keratinocyte growth factor receptor (FGFR2)	10q26
M64347	Nuclear mitotic apparatus protein 1, Alt. Splice Form 2 (NuMA Clone U4)	<u>FGFR2</u>
M80634	human Proliferation-associated gene (PA GA)	11q13
Z142228		<u>NUMA U4</u>
X67951		<u>PAGA</u>
DLPPFC-MDD		
GenBank Accession #	Gene Description	
AF036268	SH3-domain GRB2-like 2	<u>OMIM - SH3 DOMAIN, GRB2-LIKE, 2: SH3GL2</u>
AF060877	regulator of G-protein signalling 20	<u>OMIM - REGULATOR OF G PROTEIN SIGNALING 20: RGS20</u>
AL049538	ras association (RaiGDS/AF-6) domain containing protein JC265	<u>OMIM - RAI GUANINE NUCLEOTIDE DISSOCIATION STIMULATOR: RALGDS</u>
D14838	fibroblast growth factor 9 (glia-activating factor)	<u>OMIM - FIBROBLAST GROWTH FACTOR 9: FGFR9</u>
D26070	inositol 1,4,5-triphosphate receptor, type 1	<u>OMIM - INOSITOL 1,4,5-TRIPHOSPHATE RECEPTOR, TYPE 1: ITPR1</u>
J02902	protein phosphatase 2 (formerly 2A), regulatory subunit A (PR 65), alpha isoform	<u>ALPHA: PPP2R1A</u>
J04513	fibroblast growth factor 2 (basic)	<u>OMIM - FIBROBLAST GROWTH FACTOR 2: FGF2</u>
L05624	mitogen-activated protein kinase kinase 1	<u>OMIM - MITOGEN-ACTIVATED PROTEIN KINASE KINASE 1: MAP2K1</u>
M64788	RAP1, GTPase-activating protein 1	<u>OMIM - RAP1 GTPase-ACTIVATING PROTEIN 1: RAP1GA1</u>

Table 1, cont'd

			<u>OMIM - FIBROBLAST GROWTH FACTOR RECEPTOR 2: FGFR2</u>
M87771	fibroblast growth factor receptor 2 (bacteri a-expressed kinase, keratinocyte growth f actor receptor, craniofacial dysostosis 1, Crouzon syndrome, Pfeiffer syndrome, Ja ckson-Weiss syndrome)		<u>OMIM - GROWTH FACTOR RECEPTOR-BOUND PROTEIN 2: GRB2</u>
M96995	growth factor receptor-bound protein 2		<u>OMIM - GROWTH FACTOR RECEPTOR-BOUND PROTEIN 2: GRB2</u>
U09759	mitogen-activated protein kinase 9		<u>OMIM - MITOGEN-ACTIVATED PROTEIN KINASE 9: MAPK9</u>
U24152	p21/Cdc42/Rac1-activated kinase 1 (STE 20 homolog, yeast)		<u>OMIM - p21/CDC42/RAC1-ACTIVATED KINASE 1: FAK1</u>
U49857	transcriptional activator of the c-fos promoter		<u>OMIM - NEUROTROPHIC TYROSINE KINASE, RECEPTOR, TYPE 2: NTRK2</u>
W28432	Cluster Incl. W28432:47f2 Homo sapiens cDNA /gb=W28432 /gi=1308443 /ug=Hs.9 2030 /len=921		<u>OMIM - PROTEIN KINASE C, BETA-1: PRKCB1</u>
X07109	protein kinase C, beta 1		<u>OMIM - INOSITOL 1,4,5-TRISPHOSPHATE 3-KINASE A: ITPKA</u>
X54938	inositol 1,4,5-trisphosphate 3-kinase A		<u>OMIM - INOSITOL 1,4,5-TRISPHOSPHATE 3-KINASE A: ITPKA</u>
Z71929	fibroblast growth factor receptor 2 (bacteri a-expressed kinase, keratinocyte growth f actor receptor, craniofacial dysostosis 1, Crouzon syndrome, Pfeiffer syndrome, Ja ckson-Weiss syndrome)		<u>OMIM - FIBROBLAST GROWTH FACTOR RECEPTOR 2: FGFR2</u>
GenBank Accession #	Antcg BP Description	Symbol	
NM_004794	RAB33A, member RAS oncogene family protein tyrosine phosphatase, receptor typ e, K	RAB33A	
NM_002844	M14752 HUMABLA Human c-abl gene G	PTPRK	
M14752	enBank==M14752	ABL1	
NM_005252	v-fos FBJ murine osteosarcoma viral onco gene homolog	FOS	
NM_002229	jun B proto-oncogene	JUNB	<u>KIAA0806</u>
NM_014813	KIAA0806 gene product	KIAA0806	
AB007943	AB007943:Homo sapiens mRNA for KIAA 0474 protein GenBank==AB007943	KIAA0474	RAP1GA1
	chimerin (chimaerin) 2	CHN2	
NM_004067			

Table 1, cont'd.

			DEGS
NM_003676	degenerative spermatocyte homolog, lipid desaturase (<i>Drosophila</i>)		
NM_000830	glutamate receptor, ionotropic, kainate 1	GRK1	
NM_002487	neurodin homolog (mouse)	NDN	
NM_002921	retinal G protein coupled receptor	RGR	
NM_001390	dystrobrevin, alpha	DTNA	
NM_006000	tubulin, alpha 1 (testis specific)	TUBA1	
NM_001634	S-adenosylmethionine decarboxylase 1	AMD1	
NM_006931	solute carrier family 2 (facilitated glucose t transporter), member 3	SLC2A3	
NM_003832	phosphoserine phosphatase-like	PSPHL	
NM_005010	neuronal cell adhesion molecule	NRCAM	
NM_002073	guanine nucleotide binding protein (G prot ein), alpha z polypeptide	GNAZ	
L24123	L24123:Homo sapiens NRF1 protein (NR F1) mRNA cds=UNKNOWN /gb=L24123 /gi=438646 /ug=Hs.83469 /len=4992 Gen Bank=L24123	NFE2L1	
NM_000810	gamma-aminobutyric acid (GABA) A rece ptor, alpha 5	GABRA5	
NM_005398	protein phosphatase 1, regulatory (inhibit o) subunit 3C	PPP1R3C	
AI526089	AI526089:DU3-2.7.H07,r.Homo sapiens c DNA GenBank=AI526089	COX5B	
NM_000840	glutamate receptor, metabotropic 3	GRM3	
NM_012249	ras-like protein TC10	TC10	
NM_004791	integrin, beta-like 1 (with EGF-like repeat domains)	ITGBL1	
NM_000615	neural cell adhesion molecule 1	NCAM1	
NM_003916	adaptor-related protein complex 1, sigma 2 subunit	AP1S2	
NM_001406	ephrin-B3	EFNB3	
NM_001718	bone morphogenetic protein 6	BMP6	
X66358	X66358 cds#2 HSSTHPPKB H.sapiens mR NA K1K1LRE for serine/threonine protein kinase GenBank=X66358	CDKL1	

Table 1, cont'd.

D00654 U19599	DLPC-BP actin, gamma 2, smooth muscle, enteric U19599 HSU19599 Human (BAX delta) m RNA GenBank==U19599	ACTG2 BAX
NM_006908	ras-related C3 botulinum toxin substrate 1 (rho family, small GTP binding protein Ra c1)	RAC1
NM_002374 AJ001612	microtubule-associated protein 2 phosphoserine phosphatase-like phosphonylase kinase, beta hypothetical protein DKFZp547014	MAP2 PSPHL PHKB DKFZp547 I014
NM_004379	cAMP responsive element binding protein 1	CREB1
NM_032041 NM_015716 AF059274	neurocalcin delta Misshapen/NIK-related kinase Homo sapiens cDNA FLJ37320 fis, clone	NCALD MINK CSPG5
NM_006158 NM_002730	BRAMY2018106 neurofilament, light polypeptide 68kDa protein kinase, cAMP-dependent, catalytic alpha	NEFL PRKACA
NM_003885	cyclin-dependent kinase 5, regulatory sub unit 1 (p35)	CDK5R1
NM_003020	Secretory granule, neuroendocrine protein 1 (SGNE1)(7B2 protein) located at chrom osome band 15q13	

TABLE 2

NM_1964	Early growth response protein 1 (EGR1)
NM_599	human Insulin-like growth factor binding protein 5 (IGFBP5)
M87771	Fibroblast growth factor receptor k-sam, Splice 3 (k-sam-III)
Z24725	H sapiens Mitogen-inducible gene (mig-2)
M64347	human Novel growth factor receptor (FGFR3)
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Z14228	Nuclear mitotic apparatus protein 1, Alt. Splice Form 2 (NuMA Clone U4)
X67951	human Proliferation-associated gene (PAGA)
AF036268	SH3-domain GRB2-like 2
AF060877	regulator of G-protein signalling 20
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D26070	inositol 1,4,5-triphosphate receptor, type 1
JO2902	protein phosphatase 2 (formerly 2A), regulatory subunit A (PR 65), alpha isoform
JO4513	fibroblast growth factor 2 (basic)
LO5624	mitogen-activated protein kinase kinase 1
M64788	RAP1, GTPase activating protein 1
M87771	fibroblast growth factor receptor 2 (bacteria-expressed kinase, keratinocyte growth factor receptor, craniofacial dysostosis 1, Crouzon syndrome, Pfeiffer syndrome, Jackson-Weiss syndrome)
M96995	growth factor receptor-bound protein 2
U09759	mitogen-activated protein kinase 9
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NM_002844	protein tyrosine phosphatase, receptor type, K
M14752	M14752 HUMABLA Human c-abl gene GenBank=M14752
NM_005252	v-fos FB murine osteosarcoma viral oncogene homolog
NM_002229	jun B proto-oncogene
NM_014813	KIAA0806 gene product
AB007943	AB007943:Homo sapiens mRNA for KIAA0474 protein GenBank=AB007943

Table 2, cont c

NM_004067	chimerin (chimaerin) 2
NM_003676	degenerative spermatocyte homolog, lipid desaturase (Drosophila)
NM_000830	glutamate receptor, ionotropic, kainate 1
NM_002487	necdin homolog (mouse)
NM_002921	retinal G protein coupled receptor
NM_001390	dystrobrevin, alpha
NM_006000	tubulin, alpha 1 (testis specific)
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NM_003832	phosphoserine phosphatase-like
NM_005010	neuronal cell adhesion molecule
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NM_005398	protein phosphatase 1, regulatory (inhibitor) subunit 3C
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NM_012249	ras-like protein TC10
NM_004791	integrin, beta-like 1 (with EGF-like repeat domains)
NM_000615	neural cell adhesion molecule 1
NM_003916	adaptor-related protein complex 1, sigma 2 subunit
NM_001406	ephrin-B3
NM_001718	bone morphogenic protein 6
X66358	X66358 cds#2 HSSTHPKB H.sapiens mRNA KKIALRE for serine/threonine protein kinase GenBank=XX66358
D00654	actin, gamma 2, smooth muscle, enteric
U19599	U19599 HSU19599 Human (BAX delta) mRNA GenBank=U19599
NM_006908	ras-related C3 botulinum toxin substrate 1 (rho family, small GTP binding protein Rac1)
NM_002374	microtubule-associated protein 2
AJ001612	phosphoserine phosphatase-like
NM_000293	phosphorylase kinase, beta
NM_020217	hypothetical protein DKFZp547I014
NM_004379	cAMP responsive element binding protein 1
NM_032041	neurocalcin delta
NM_015716	Misshepap/NIK-related kinase
AF059274	Homo sapiens cDNA FLJ37320 fts, clone BRAMY2018106
NM_0006158	neurofilament, light polypeptide 68kDa

Table 2, cont'd

NM_002730 protein kinase, cAMP-dependent, catalytic, alpha
NM_003885 cyclin-dependent kinase 5, regulatory subunit 1 (p35)

SF 1398517 v1

Acc.	Num.	Disorder/Region	Description	MD DLFC
U65090		carboxypeptidase D	prostaglandin D2 synthase (21kD, brain)	
A1207842	D83017	carboxypeptidase D	NEIL-like 1 (chicken)	
X79067	X15331	phosphoribosyl pyrophosphate synthase 1	zinc finger protein 36, C3H type-like 1	
D26443	D26443	solute carrier family 1 (glial high affinity glutamate transporter), member 3	clathrin, light polypeptide (Lcb)	
M20470	X05236	aldolase A, fructose-bisphosphate	ubiquitin carboxyl-terminal esterase L1 (ubiquitin thiolesterase)	
X04741	X04741	ubiquitin carboxyl-terminal esterase L1 (ubiquitin thiolesterase)	v-raf-1 murine leukemia viral oncogene homolog 1	
X03484	A1526089	cytochrome c oxidase subunit Vb	proteasome (prosome, macrophain) 26S subunit, non-ATPase, 1	
X56468	D4466	tryosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein (prosome, macrophain) 26S subunit, non-ATPase, 1	protein, theta polypeptide	
L13740	A13740	nuclear receptor subfamily 4, group A, member 1	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation	
AFO26547	AJ002962	chondroitin sulfate proteoglycan 3 (neurocan)	protein, fatty acid binding protein 7, brain	
U65090		carboxypeptidase D		

Table 4: Summary

Genbank Accession No.	AnCg BP	AnCg MD	DLPFC BP	DLPFC MD	CB BP	CB MD	flags
D50310	up		up		up		1
L08485			up		up		1,2,3
U28964					up		1
AF016917					up		1,3
L19182			down	down	up		1
AJ001612	up	down	up	up	up		1,3
U66879	up	up	up	up	up		1
JO4046	up	up	up	up	up		1,3
X63575	up	up	up	up	up		1,2,3
S74445		up			up		1
X71490	up	up	up	up	up		1,2,3
AF112471	up	up	up	up	up		1
AB006626	up	up	down	down	down		1,3
U37143		down	down	down	down		1
AC004131	up	down	up	down	down		1,2
M29273		down	up	down	down		1,2
X76220	up		up				3
M112267		up	down	down	down		1
AF060877		down	down	down	down		1,2
AB018305		down	down	down	down		1
U58334		down	up	down	down		1,3
AB020629	up	down	down	down	down		1,3
U37122		down	down	down	down		1,3
AL080061		down	down	down	down		1
M34309		down	down	down	down		1
M80634		down	down	down	down		1
M64347		down	down	down	down		1,3
X57206		down	down	down	down		1,3
X77196		down	down	down	down		1
Z24725		down	down	down	down		1,3
AB018342					up		1,3
Y10275					down		1
AB007943	down		down		down		1
AL049538							1

Table 4, cont'd

M14758		down	down		down	down	down	3
X113839		down	down		up	up	up	3
X63432	up	up	up		up	up	up	3
X04098	up	up	up		up	up	up	3
AF006082	up	up	up	down	down	down	down	3
D67031		down						3
L22214								3
J03473								3
AJ236876	up	3						
AF072902		up	up	up	up	up	up	3
U84011								3
K02215	up	up	up	down	down	down	down	3
AI800578		down			down	down	down	3
AL049954					down	down	down	3
RS9606		down	down	down	down	down	down	3
M80899		down	down	down	down	down	down	3
U00957					up	up	up	3
AA114830					up	up	up	3
U81607					up	up	up	3
M90360		down			down	down	down	3
X15414	up	3						
U05861					up	up	up	3
D17793		down			down	down	down	2
K03000					down	down	down	3
U46689					up	up	up	3
U24267	down	3						
M93405		down			up	up	up	3
U34252	up	3						
X05236	up	3						
M21154	up	3						
W63793								3
M63175					up	up	up	3
AB028994		down			down	down	down	3
U29926					down	down	down	3
X81438	up	3						
D14662		down			down	down	down	3
AF091077	down							3

Table 4 cont'd

Table 4 cont'd

Table 4 cont'd

D86062	up	down	down	down	down	down	3
AL080097	up	up	up	up	up	up	3
AF006621	down	up	up	down	down	down	3
J03037	down	up	up	down	down	down	3
U79666	down	down	up	up	up	up	3
M76559	up	up	up	up	up	up	2
S60415	up	up	up	up	up	up	3
AF068862	up	up	up	up	up	up	2
U12022	up	up	up	up	up	up	2
D45887	up	up	up	up	up	up	2
AB020640	up	up	up	up	up	up	2
U02390	up	up	up	up	up	up	2
U02390	up	up	up	up	up	up	2
U02390	down	down	down	down	down	down	2
X85030	down	up	up	up	up	up	2
U20325	up	up	up	up	up	up	2
AB002376	up	up	up	up	up	up	2
AL035079	up	down	down	down	down	down	2
AF070648	down	up	up	up	up	up	2
L10822	up	up	up	up	up	up	2
AF091433	up	up	up	up	up	up	2
AF026166	up	up	up	up	up	up	2
X74801	up	up	up	up	up	up	2
AF026292	up	up	up	up	up	up	2
X69398	up	up	up	up	up	up	2
M38690	up	up	up	up	up	up	2
AF023158	down	down	down	down	down	down	2
M37712	up	up	up	up	up	up	2
AL031282	up	up	up	up	up	up	2
M35543	up	up	up	up	up	up	2
W27541	down	up	up	up	up	up	2
U59325	down	up	up	up	up	up	2
AF006484	down	up	up	up	up	up	2
X66364	up	up	up	up	up	up	2
L04658	up	up	up	up	up	up	2
X77743	up	up	up	up	up	up	2
X66358	up	up	up	up	up	up	2

Table 4 cont'd

U22398	down	down	up	up	up	up	down
M16965							
W27184	down						
U65887	down						
U60808	down						
AI056696							
U78516	down		up				3
AI080084	up		up				3
AA189161	up		up				3
AB023203	down		up				2
U03749		up					2
Y00064		up					2
U07223	up		up				2
X70297			up				3
W29042			up				3
D49738		up	down	down	down	down	3
Z30644			down	down	down	down	3
U89916			down	down	down	down	3
M59287		down					
AF039704			up				3
X91788	up						3
M20469	up	up		up			3
M20470	up	up		up			2,3
AB020709			up	up	up		2,3
S80562					down		
D13146	up		up				3
M19650	up			up			3
Z21488					up		
AB020675			up				
AB014533	up					down	
M92642						down	
M58526			down			down	
U65928	up	up		up			3
AA149486	up	up		up			3
M22760			up				3
M19961			up				3

Table 4, cont'd

AI526089	up	up	up	up				3
T57872	up	up	up	up				3
AA152406	down							3
AA978033		up						3
AB007618		up						3
N50520		up	up	up				3
U65090		up	up	up				3
X51405		up	up	up				3
S74445		up	up	up				2,3
M27691	down							2
S68271	up							3
D10656	up							3
U49857		down	down	down				3
U49857		down	down	down				3
AL038340	up		up	up				3
AL038340	up		up	up				3
AF039397	up		up	up				3
AF053641	up		down	down				3
M27826		down			up	up		3
U89896			down	down	up	up		3
D32059				down	down	down		2
X15998				down	down	down		2
X15998				down	down	down		2
AF026547		down						2
M33146								2
L22569		up			up	up		3
X16832		down			down	up		3
Y07593	up		down	up		down		3
L06797		up			up	up		3
L47738								3
M33318	down							3
Y11307								3
M98529	up		up	up		up		3
AB002379			down			down		3
D15057					up	up		3
AL050152					up	up		3
D31767					up	up		3

Table 4 cont'd

AL050084			down		down		down		down		3
AB002367		up		up		up		up		3	
AF086947	up	up	up	up						3	
US0733	up	up	up	up						3	
W26651	up	up	up	up						3	
U48705			down	down						3	
L20817			down	down						3	
U59321			down	down						3	
AF000982		up	up	up						3	
AF007142			down	down						3	
UG3825	up	up	up	up						3	
AF021819		up	up	up						3	
AL080115		up	up	up						3	
AL049944	up		down	down						3	
AL049934			down	down						3	
AL050390		up	up	up						3	
AL050272	up	up	up	up						3	
AL050159			down	down						3	
L08069	up	up	up	up						3	
L08069	up	up	up	up						3	
AI810807			up	up						3	
AI540958			up	up						3	
AF000430	up		down	down						3	
D50857			up	up						3	
AF007875			up	up						3	
U97105			up	up						3	
M97388	up		up	up						3	
D83407		up	up	up						3	
S65738			up	up						3	
U26742			down	down						3	
U46744			down	down						3	
U84551			down	down						3	
U46746			down	down						3	
X68277			down	down						3	
L05147			down	down						3	
AB013382			down	down						3	
U31930			up	up						3	

Table 4 cont'd

Table 4 cont'd

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X15376			up	up	up	up	down	3
D86181	up						down	
S68805			up				down	3
D00723			up				down	3
Y13286	up		up				down	3
S40719		down					down	3
D87467			up				down	3
M65188		down					down	3
X52947		down					down	3
M57609			down				down	3
U33267	up	up	up	up			down	3
X76648		up	up	up			down	3
AB020645		up	up	up			down	2,3
U08997	up	down	down	down			down	3
U08997		down	down	down			down	3
X59834		down	down	down			down	3
U43083	up		up	up			up	3
D90150	up		up	up			up	3
AF017656			up	up			up	3
AI238764			up	up			down	3
AL049367		down					down	3
AB020662	down	down					down	3
AF047438		up	up	up			down	3
M22632		down	up	up			down	3
AF016004			down	up			up	3
D38449				up			down	2,3
U87460	up	down	up	up			down	3
AJ011001			up	up			up	3
X71973			up	up			up	3
W28944	up						up	3
M81886	up						up	3
U10301							up	3
X82068	up						up	3
L19058		down					up	2,3
S40369							up	2,3
X77748	up						down	3
D87119		down					down	3

Table 4 cont'd

D87119	down	down	down	down	down	down	3
X04412	up	down	up	down	down	down	3
M16594	down			down			
J05459	up	up	up	up	up	up	2, 3
U90313	up	up	up	up	up	up	3
M95809							3
X03473							3
D64142							3
D64142							3
L19779							3
M37583	up	up	up	up	up	up	
H15872	up	up	up	up	up	up	
AA255502	down	down	down	down	down	down	
M25079	down	down	down	down	down	down	
L48215	down	down	down	down	down	down	
AF019214							
AF029890	up	up	up	up	up	up	
U31814							
AL034374	down	up	down	up	down	down	
AI391567		up		down			
U51004		down		down			
AB014555							
X58336	down						
M32578							
U25803							
X12671							
M116342							
D89678							
U01923							
W27191							2
X92814							
X99209	up						
AF068754							
M11717		down					
L26336	up	up	up	up	up	up	
L26336	up	up	up	up	up	up	
L26336	up	down	up	up	down	down	down

Table 4 cont'd

L26336	up			down			2
L12723	up						3
X87949		up					
X13794	up	up	up				
Y00371	up	up	up	up	up		2,3
L15189	up			up			
AL021937				up			
X15183				up			3
J04988	up	up	up	up	up		
W28616				up			3
M22382				up			2,3
AI912041				up			2,3
X57830		up					3
AI434146			down				
AF012023			up		down	down	
X77956							
AL022726				down	down		
U49283	up	up	up				3
AA522698	up	up	up				3
X17025				up			
U66042				up	up		3
M24594	up			up			
X16302				up	up		
AB017563					down		2
L42572				up			3
U26398					up	up	
X77567				up			3
U96876							2
X53586					down	down	
X07979							2
AL021786							
AA477898	up				up		3
X54938	up	up	up		up		3
U23850				up		up	
AB016492	up	up	up				
J04111	up	up	up				
X51345			down			down	

Table 4 cont'd

AF070523		up	down	down	down		
D7994	down					3	
L02840	down					3	
U52155	down					3	
U39196		up		up		3	
Y15065	up					3	
D26067		up				3	
D31887		up				3	
DI4663		up				3	
AL049250	down	down	down	down	down		
D87074		up			down		
D87443	up		down		down		
D87445		up				3	
AB002347		up					
AB002361	up						
AB007903		up					
AB007963			down		down		
AB011095			down		down		
AB014526		down		down			
AB014544		down		down			
AB018335		down		down			
AB020637		up		up			
AB020661				down			
AB023152	up	down		down			
AB023209		down		down			
AB023230		down		down			
AB028972	up	up	up	up	up		
AB028977	down					3	
AB029034				down		down	
AF070621		up				3	
Y08319	up					3	
AB002357		up		up		3	
AF035621	up	up		up		3	
U59919		up				3	
AJ001685		down		down		3	
J04182	up		up	up	down	3	
U36336		down		down	down	3	

Table 4 cont'd

Y11395	up	up	up	up	down	down	2
AL050126							3
M90424	up	up	up	up	up	up	3
X02152	up	up	up	up	up	up	3
X13794							
AI535946	up	up	up	up	up	up	3
D55696	up	up	up	up	up	up	3
AF087693							2
X76488	up	up	up	up	up	up	2
U41060							3
X61118							
U79297	up	up	up	up	down	down	3
AL039458							
AB011540							2
M63959	up	up	up	up	up	up	3
M92439	up	up	up	up	up	up	3
AB012293	up	up	up	up	up	up	3
W26633	up	up	up	up	up	up	3
U03100	up	up	up	up	up	up	3
U03100	up	up	up	up	down	down	3
D55649	up	up	up	up	up	up	3
AA420624							3
U01828							
U89230							
S76756	down	up	up	up	up	up	3
L05624	up	up	up	up	up	up	3
U17743	up	up	up	up	up	up	3
U71087							3
Z11695	up	up	up	up	up	up	3
X14474							2,3
X66867							
AF072250	up	up	up	up	down	down	3
D84557	up	up	up	up	up	up	
X79440							
S57212							
AW006742	down	down	down	down	down	up	
AI674208							

Table 4 cont'd

AI674208	down	up	down	up				
AF038186		up						
W26659		up						
AB014579		up	down					
M16279		down	down					
D25217	up							2
AI127424								3
AF001359								3
X70326	down	up	down	up				3
AF041080	down	up	down	up				3
AI670788		up						
Z48051		down	up	up	down			
U64565		down	up	up				2,3
D14812			up	up				3
AI597616	up	up	up	up	up			3
Y11681	up	up	up	up	up			3
AL050361			up		down			3
Z98946			down		down			2
AI547258			up					
AF072928	up		down		down			2
M55405	down		down		down			2,3
AF001548	down		down		down			2
AF013570			down		down			2
AF001548	down		down		down			2,3
D10667			down		down			2,3
D10667	down		down		down			3
J02854								3
AF020267					down			3
AB029029		up						3
U42349	up	up	up	up				3
AF052142	up	up	up	up				3
AA126505	up				down			2
X77548								
AF044209		up						2,3
U35139	up	up	up	up	down			3
D87953								3
AF047185				up				

Table 4 cont'd

Table 4 cont'd

U55258			up	up		2
U55258			up	up		2
X99076		up	up			3
AB011150	up	up	up	up		2,3
U03985		up				
X55740		down	down	down	down	
AI018523		down	down	down	down	2,3
X75938		down	down	down	down	
W28432		down	down	down	down	
Y10148		down	down	down	down	
AL050066	up	up	up	up	down	
U48250		down	down	down	down	
U48250		down	up		down	3
M63623		up	up	up		3
AF061034		up	up			3
AF061034		up	up			3
U63717		up	up	up		3
U62961		up	up			3
AB017016	up	up	up	up	down	
M80482	up	down	down	down	down	2,3
AB023211		up				
L13385						
D63391	up			up		3
U24152	up	up		up		2,3
U24152		up		up		2,3
AF068864	up	up	up	up		
AF068864	up	up	up	up		
AF005043		up	up			
M93650				down		
AI521453	up	up		up		3
X73424	up					3
AB020631				down	down	3
D13892		up	up			3
D25547	up	up	up	up		3
U52969		up				3
AA535884				down		2
U40370	up					

Table 4 cont'd

AB007946	up	down	down	3
S41458	down	down	down	3
AF056490	up	up	up	2
L42451	up	up	up	3
X98248	up	down	down	3
AB002345	up	up	down	3
AF093670	up	up	down	3
U41816	down	up	up	3
AL096719	up	up	up	2,3
V00572	up	up	up	2,3
M83088	up	up	down	3
X84908	up	up	down	3
U45976	up	up	down	3
AF010312	up	up	down	3
AL120815	up	up	down	3
Z29090	down	up	up	3
U81802	up	up	up	3
U49070	up	up	up	3
W28299	up	up	up	3
AL050371	up	up	up	3
D30037	up	up	down	3
U03090	up	up	down	3
U60644	up	up	down	3
U84573	down	up	down	3
M54927	down	up	down	3
M22299	up	up	up	2
X57398	up	up	down	3
D11428	up	up	down	3
AF001601	down	down	down	3
AL050161	down	down	up	3
AF017786	up	up	down	3
AF016371	up	up	down	3
AF001691	up	up	down	3
Y18207	down	down	down	3
Y18207	down	down	down	3
N36638	up	up	down	3
Z50749	up	up	down	3

Table 4 cont'd

J02902		up							
J02902		up							
M64929	up		up						
M64929			up						
M29551		up							
X89416	up		up						
U44772			up						
AB014512	down		up						
X67951			up						
L19185	up	up	up						
U25182	up		up						
M333336		up	up						
M333336		up	up						
X07109		up		up					
X06318		up		up					
Z15108		up		up					
U29185		up		up					
AB011124		up		up					
X15331	up		down		down				
D87258			down		down				
D87258			down		down				
J03077	up		up		up				
M85169	up		up		up				
L76517	up		up		up				
D00760		up		up					
D00762	up		up		up				
D00761	up		up		up				
D26598	up		up		up				
D26600	up		up		up				
D26600	up		up		up				
D29011	up		up		up				
D29012	up		up		up				
D38048	up		up		up				
AF035309			up		up				
D44466	up		up		up				
AL031177	up		up		up				

Table 4 cont'd

AB009398	up								2,3
D78151	up								3
US1007	up								3
D50063	up	up							3
D38047	up	up							3
D38047	up	up	up						3
AJ001612	up	up	down						3
D14694	up	down	down	up					3
M98539	up	down	down	up					3
A1207842	up	down	down	up					3
A1207842	up	down	down	up					3
U33284	up	down	down	up					3
M14630	up	down	down	up					2,3
M57399	down	down	down	up					2,3
M57399	down	down	down	up					2,3
X54131	down	down	down	up					2
L77886	up	up	up	up					2
Z48541	up	up	up	up					2
D64053	up	up	down	down					2,3
M93426	up	up	down	up					2
X63578	down	down	down	up					3
Z48054	down	down	down	up					3
AL031781	down	down	down	down					3
AL031781	down	down	down	down					3
AL540957	up	up	up	up					3
AF052113	up	up	up	up					3
M28209	up	up	up	up					3
AL050268	up	up	up	up					3
AL050268	up	up	down	down					3
U59877	down	down	down	down					3
A1189226	up	up	up	up					3
D14889	up	up	up	up					3
D14889	up	up	up	up					3
M28212	up	up	up	up					3
AJ133534	up	up	up	up					3
X98001	up	up	up	up					3
D25274	up	up	up	up					3

Table 4 cont'd

Table 4 Cont'd

Table 4 cont'd of

W28850	down	down	down	down	down	down	3
D26443	down	down	down	down	down	down	3
H10201							3
X60036		up					3
M20681	up	up	down	down	down	down	2,3
AF007216		down	down	up			2,3
AF011390		down	down				3
AF015926		down	down				3
D86959		up			down		
U96094	up			up	up	up	3
D80000			up	up	down	down	2,3
X59960	up	up	up	up			3
AF053136		up		up			2
AL049650	up	up	up	up			3
AA733050	up	up	up	up			3
U40571					down		3
AF034546			up	up			3
X02317			up	up			3
X63753			up	up			3
AF001183					down		2
Z46629			down		down	down	3
AB011088	down				down		
J03040					down		
J04765	up	up	up	up	down	down	3
AF052124	up	up	down	down	down	down	3
AF039843				up			3
Y08685				up			3
D78130				up			2
M32313				up	up		3
M323886				down	down		3
U88666				up			2
J00306		up		up	up	up	2,3
A1636761	up		down		down		
AB011107			up				
L78440				up			
U04735		up		up	up	up	
M86732							

Table 4 cont'd.

Table 4 cont'd

L27476			down			down			down		
AB028950			down	up		down			down		3
AI688299		up									3
R16035				up							3
U81006					up						3
M92383			up								3
D38305					down						3
D13641				up							3
U09477		up									3
M112125					down						3
M112125					down						3
U12595		up									3
X00437		down			down						3
AB011089						up					3
AF084260						up					3
AI133769							up				3
X89066		up						up			3
AF042181								up			3
AF001294				up					up		3
AF035283			down			down					3
X06956		up		up			up		up		2
X06956		up		up			up		up		2
AF005392		up		up			up		up		2
X01703		up		up			up		down		3
AF035316									down		3
X02344		up									3
U47634		up									3
X00734		up									3
S75463		up									3
D17517						up					3
U18934						up					3
AI310002						up					3
AF075599							up				3
U67122								up			3
X04741		up						up			3
U27460								up			3
U30930								down			3

Table 4 cont'd.

Table 4 cont'd

US1334			down	
AF020762		up		
U24105			up	
M36820			down	
U59912		up		
X63368	up		up	
AF047863			up	
U11861	up			
AL080122		up		
M14648			down	
Y14153		down	up	
X81637				
M88108				
AF042384	up		up	
AA704137				
AB011156	up			
AI862521	up			
AF047469			up	
AF022887		up		
AF091085	up			
AL035494		up		
A1540925	down			
D32129			down	
AB028972	up			
AF091071			up	
AL040137			down	
X15187	up			
U48730	down			
L08488	up			
K03460	up			
AF005361			up	
M95585			up	
M91670	up			

Table 5: RT-PCR Confirmation

Gene Bank Acc. No.	Gene Name	AnCg BP	AnCg MD	DLPFC BP	DLPFC MD
AB020629	ABCA8			down	down
U37122	ADD3			down	down
X63575	ATP2B2			down	
X71490	ATP6V0D1	up			
U66879	BAD	down			
J04046	CALM3		up		
AF112471	CAMK2B	up			
D50310	CCNI	up			up
AL080061	CLIC4			down	down
S74445	CRABP1	up			
U37143	CYP2J2	down		down	down
M34309	ERBB3			down	down
M80634	FGFR2			down	down
M64347	FGFR3			down	down
L08485	GABRA5	up			
AF016917	GABRD	down	down	down	down
AC004131	GPRC5B				
AB006626	HDAC4	up			
L19182	IGFBP7	down	down		
X57206	ITPKB			down	down
X77196	LAMP2			down	down
M29273	MAG	down		down	down
X76220	MAL	down		down	down
Z24725	MIG2			down	down
AB018342	MYO10			down	down
M12267	OAT	down		down	down
Y10275	PSPH				
AJ001612	PSPHL	down		down	down
AB007943	RAP1GA1				
AF060877	RGS20	down		down	down
AL049538	RJN2			down	down
AB018305	SPON1	down		down	down
U58334	TP53BP2	down		down	down
U28964	YWHAZ	up			

Table 6: Summary of Anti-Depressant Treatment Data

Genbank Accession No.	Gene Name	SSvDS	SSvFS	SNvDN	SNvFN	SNvSS
M80899	AHNAK	down	down	down	down	down
K03000	ALDH1A1	down	down	down	down	down
X97074	AP2S1	down	down	up	up	up
U34846	AQP4	down	down	down	down	down
D87468	ARC	up	up	up	up	up
L04510	ARFD1	down	down	down	down	down
AF006087	ARPC4	up	up	up	up	up
J05096	ATP1A2	down	down	down	down	down
M37457	ATP1A3	down	down	down	down	down
J04027	ATP2B1	up	up	up	up	up
AJ010953	ATP2C1	down	down	down	down	down
AA877795	ATP6V1D	down	down	down	down	down
X79888	AUH	down	down	down	down	down
AF001383	BIN1	down	down	down	down	down
U68485	BIN1	down	down	down	down	down
U72649	BTG2	up	up	up	up	up
X95592	C1D	down	down	down	down	down
M76559	CACNA2D1	up	up	up	up	up
AF068862	CALB1	down	down	down	down	down
AF112471	CAMK2B	down	down	down	down	down
U02390	CAP2	down	down	down	down	down
U20325	CART	down	down	down	down	down
X66364	CDK5	down	down	down	down	down
U03749	CHGA	down	down	down	down	down
U07223	CHN2	down	down	down	down	down
AB020709	CNK2	down	down	down	down	down
S80562	CNN3	down	down	down	down	down
S74445	CRABP1	up	up	up	up	up
S74445	CRABP1	up	up	up	up	up
M27691	CREB1	up	up	up	up	up
M33146	CSRPI	down	down	down	down	down
A1810807	DNC11	down	down	down	down	down
D86550	DYRK1A	down	down	down	down	down
U4936	EIF5	down	down	down	down	down

Table 6, cont'd

			up	up	up	up
X51956	ENO2					
L35594	ENPP2					
L35594	ENPP2					
D45421	ENPP2					
AA977580	FACL3	down				
D14838	FGF9	down				
L08485	GABRA5	down				
AB020645	GLS	down				
X71973	GPX4	up				
X77748	GRM3	down				
J05459	GSTM3	down				
X92814	HRASL3	down				
L12723	HSPA4	down				
L15189	HSPA9B	up				
AI912041	HSP-E1	down				
X57830	HTR2A	down				
AB017563	IGSF4	up				
U96876	INSIG1	down				
X07979	ITGB1	down				
AL050126	LAP1B	down				
AF087693	LIN7A	down				
AL039458	LRIG1					
M29273	MAC	up				
X76220	MAL	down				
X14474	MAPT	up				
M16279	MIC2	down				
D14812	MRGX	down				
AI547258	MT2A	down				
AF013570	MYH11	down				
D10667	MYH11	down				
D10667	MYH11	down				
AF0011548	MYH11	down				
AF0011548	MYH11	down				
X77548	NCOA4	up				
U35139	NDN					
AA203354	NDUFB3	down				
X73066	NME1	down				

Table 6 cont'd

X17620	NME1	down		
AL038662	NME1	down		
X58965	NME2	down		
M86707	NMT1	down		
U61849	NPTX1	down		
AI198311	NPY		down	
U55258	NRCAM	down		
AB002341	NRCAM	down		
U55258	NRCAM	down		
U03985	NSF		down	
X75958	NTRK2		down	
L13385	PAFAH1B1	down		
U24152	PAK1	down		
U24152	PAK1	down		
U40370	PDE1A	up		
AB002345	PER2		down	
V00572	PGK1	down		
M83088	PGM1		up	
AF017786	PPAP2B	down		
M29551	PPP3CB	down		
X67951	PRDX1	down		
U29185	PRNP		down	
D00760	PSMA2	down		
D26598	PSMB3	down		
D29011	PSMB5		up	
D44466	PSMD1		up	
AB009398	PSMD13	down		
M57399	PTN	down		
M57399	PTN	down		
Z48541	PTPRO		up	
M93426	PTPRZ1	down		
X63578	PVALB		up	
U41654	RAGA	down		
U27768	RGS4	down		
D87735	RPL14	down		
Y00281	RPN1	down		
M84711	RPS3A	down		down

Table 6 cont'd

L10333	RTN1	down	up	
M25756	SCG2	down		
AF049498	SCN2B			up
AF054184	SEC61G		down	
Y00757	SGNE1	down	down	
AF007216	SLC4A4	down	down	
AF011390	SLC4A4	down	down	
D80000	SMC1L1		down	
AF053136	SNCB		up	
AJ001183	SOX10		up	
AB018305	SPON1	down		
M32313	SRD5A1	up		
AI636761	SST	down	up	
J00306	SST	down	up	
X99325	STK25		down	
M31303	STMN1	down		
U77942	STX7	down		
AF039945	SYNJ2	down		
D50495	TCEA2	up		
X06956	TUBA1			down
AI31002	UBE2D2	down		
J04973	UQCRC2	down		
D26068	WBSCR1	down		
M92843	ZFP36		up	
AI095508		down		
AF070577		down		

Table 7a: AnCg BP Genetic Ontology

Genbank Accession No.	Gene Name	Description
	26S proteasome	
D00762	PSMA3	proteasome (prosome, macropain) subunit, alpha type, 3
D44466	PSMD1	proteasome (prosome, macropain) 26S subunit, non-ATPase, 1
D00761	PSMB1	proteasome (prosome, macropain) subunit, beta type, 1
D38048	PSMB7	proteasome (prosome, macropain) subunit, beta type, 7
D78151	PSMD2	proteasome (prosome, macropain) 26S subunit, non-ATPase, 2
D29012	PSMB6	proteasome (prosome, macropain) subunit, beta type, 6
D38047	PSMD8	proteasome (prosome, macropain) 26S subunit, non-ATPase, 8
D26598	PSMB3	proteasome (prosome, macropain) subunit, beta type, 3
D26600	PSMB4	proteasome (prosome, macropain) subunit, beta type, 4
		synaptic transmission
X82068	GRIA3	glutamate receptor, ionotropic, AMPA 3
D11428	PMP22	peripheral myelin protein 22
AI636761	SST	somatostatin
AA126505	NCAM1	neural cell adhesion molecule 1
L10338	SCN1B	sodium channel, voltage-gated, type I, beta polypeptide
X81438	AMPH	amphiphysin (Stiff-Man syndrome with breast cancer 128kDa autoantigen)
M19650	CNP	2',3'-cyclic nucleotide 3' phosphodiesterase
L19058	GRIK1	glutamate receptor, ionotropic, kainate 1
AI198311	NPY	neuropeptide Y
U668485	BIN1	bridging integrator 1
M81886	GRIA1	glutamate receptor, ionotropic, AMPA 1
Z11695	MAPK1	mitogen-activated protein kinase 1
X77748	GRM3	glutamate receptor, metabotropic 3
AF052113	RAB14	RAB14, member RAS oncogene family
U440215	SYN2	synapsin II
U61849	NPTX1	neuronal pentraxin I
		Chaperone
J04988	HSPCB	heat shock 90kDa protein 1, beta
U12595	TRAP1	heat shock protein 75
L12723	HSPA4	heat shock 70kDa protein 4
L08069	DNAJ1	DnaJ (Hsp40) homolog, subfamily A, member 1
AL038340	CRYAB	crystallin, alpha B
AL038340	CRYAB	crystallin, alpha B

Table 7α cont'd

X02344	TUBB2	<i>tubulin, beta, 2</i>
AF026166	CCT2	<i>chaperonin containing TCP1, subunit 2 (beta)</i>
M63959	LRPAP1	<i>low density lipoprotein receptor-related protein associated protein 1</i>
L26336	HSPA2	<i>heat shock 70kDa protein 2</i>
AF026292	CCT7	<i>chaperonin containing TCP1, subunit 7 (eta)</i>
L08069	DNAJA1	<i>DnaJ (Hsp40) homolog, subfamily A, member 1</i>
AA149486	COX17	<i>COX17 homolog, cytochrome c oxidase assembly protein (yeast)</i>
Y00371	HSPA8	<i>heat shock 70kDa protein 8</i>
X74801	CCT3	<i>chaperonin containing TCP1, subunit 3 (gamma)</i>
X56468	YWHAQ	<i>tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, theta polypeptide</i>
U41816	PFDN4	<i>prefoldin 4</i>
L15189	HSPA9B	<i>heat shock 70kDa protein 9B (mortalin-2)</i>
L26336	HSPA2	<i>heat shock 70kDa protein 2</i>

Table 7b: AnCg MD: Genetic Ontology

Genbank Accession No.	Gene Name	Description
		transporter activity
T79616	UQCRB	<i>ubiquinol-cytochrome c reductase binding protein</i>
A1526089	COX5B	<i>cytochrome c oxidase subunit Vb</i>
AL049929	ATP6IP2	<i>ATPase, H⁺ transporting, lysosomal interacting protein 2</i>
AF006621	C4orf1	<i>chromosome 4 open reading frame 1</i>
L09235	ATP6V1A1	<i>ATPase, H⁺ transporting, lysosomal 70kDa, V1 subunit A, isoform 1</i>
M22760	COX5A	<i>cytochrome c oxidase subunit Va</i>
U01824	SLC1A2	<i>solute carrier family 1 (glial high affinity glutamate transporter), member 2</i>
N50520	COX7B	<i>cytochrome c oxidase subunit VIIb</i>
AF007216	SLC4A4	<i>solute carrier family 4, sodium bicarbonate cotransporter, member 4</i>
AF011390	SLC4A4	<i>solute carrier family 4, sodium bicarbonate cotransporter, member 4</i>
AA526497	UQCRH	<i>ubiquinol-cytochrome c reductase hinge protein</i>
AA845575	ATP5J	<i>ATP synthase, H⁺ transporting, mitochondrial F0 complex, subunit F6</i>
X52947	GJA1	<i>gap junction protein, alpha 1, 43kDa (connexin 43)</i>
D26443	SLC1A3	<i>solute carrier family 1 (glial high affinity glutamate transporter), member 3</i>
AF053070	NDUFV1	<i>NADH dehydrogenase (ubiquinone) flavoprotein 1, 51kDa</i>
X76228	ATP6V1E1	<i>ATPase, H⁺ transporting, lysosomal 31kDa, V1 subunit E isoform 1</i>
X63575	ATP2B2	<i>ATPase, Ca²⁺ transporting, plasma membrane 2</i>

Table 7c: DLPPFC BP Genetic Ontology

Genbank Accession No.	Gene Name	Description
Hydrogen ion transporter activity		
AA917672	ATPSL	ATP synthase, H ⁺ transporting, mitochondrial F0 complex, subunit 8
AT526089	COX5B	cytochrome c oxidase subunit Vb
J04973	UQCRC2	ubiquinol-cytochrome c reductase core protein II
AF050640	NDUFS2	NADH dehydrogenase (ubiquinone) Fe-S protein 2, 49kDa (NADH-coenzyme Q reductase)
AL049929	ATP6IP2	ATPase, H ⁺ transporting, lysosomal interacting protein 2
AF047181	NDUFBS5	NADH dehydrogenase (ubiquinone) I beta subcomplex, 5, 16kDa
AF047436	ATPS12	ATP synthase, H ⁺ transporting, mitochondrial F0 complex, subunit 5, isoform 2
D14710	ATPSA1	ATP synthase, H ⁺ transporting, mitochondrial F1 complex, alpha subunit, isoform 1
U09813	ATP5G3	ATP synthase, H ⁺ transporting, mitochondrial F0 complex, subunit c (subunit 9) isoform 3
N50520	COX7B	cytochrome c oxidase subunit VIIb
AF087135	ATP5H	ATP synthase, H ⁺ transporting, mitochondrial F0 complex, subunit d
D89052	ATP6V0B	ATPase, H ⁺ transporting, lysosomal 21kDa, V0 subunit C"
X76228	ATP6V1E1	ATPase, H ⁺ transporting, lysosomal 31kDa, V1 subunit E isoform 1
Chaperone		
U56833	VBP1	von Hippel-Lindau binding protein 1
L08069	DNAJ1	DnaJ (Hsp40) homolog, subfamily A, member 1
AL038340	CRYAB	crystallin, alpha B
AL038340	CRYAB	crystallin, alpha B
X15183	HSPCA	heat shock 90kDa protein 1, alpha
X56468	YWHAQ	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, theta polypeptide
L24804	TEBP	unactive progesterone receptor, 23 kD
W28616	HSPCB	heat shock 90kDa protein 1, beta
D49738	CKAP1	cytoskeleton-associated protein 1
AF026166	CCT2	chaperonin containing TCP1, subunit 2 (beta)
M63959	LRPAP1	low density lipoprotein receptor-related protein associated protein 1
X87949	HSPA5	heat shock 70kDa protein 5 (glucose-regulated protein, 78kDa)
L26336	HSPA2	heat shock 70kDa protein 2
M22382	HSPD1	heat shock 60kDa protein 1 (chaperonin)
L08069	DNAJ1	DnaJ (Hsp40) homolog, subfamily A, member 1
AF035316	TUBB	tubulin, beta polypeptide
A1912041	HSPE1	heat shock 10kDa protein 1 (chaperonin 10)
Y00371	HSPA8	heat shock 70kDa protein 8
X74801	CCT3	chaperonin containing TCP1, subunit 3 (gamma)

Table 7c cont'd

X56468	YWHAQ	tyrosine 3-monoxygenase/tryptophan 5-monoxygenase activation protein, theta polypeptide
W29042	CLA30	CGI-65 protein
L15189	HSPA9B	heat shock 70kDa protein 9B (mortalin-2)
	OXPHOS	
X71490	ATP6V0D1	ATPase, H ⁺ transporting, lysosomal 38kDa, V0 subunit d isoform 1
D14710	ATP5A1	ATP synthase, H ⁺ transporting, mitochondrial F1 complex, alpha subunit, isoform 1, cardiac muscle
U09813	ATP5G3	ATP synthase, H ⁺ transporting, mitochondrial F0 complex, subunit c (subunit 9) isoform 3
AF087135	ATPSH	ATP synthase, H ⁺ transporting, mitochondrial F0 complex, subunit d
AA845575	ATPSI	ATP synthase, H ⁺ transporting, mitochondrial F0 complex, subunit F6
AF047436	ATP5J2	ATP synthase, H ⁺ transporting, mitochondrial F0 complex, subunit f, isoform 2
AA917672	ATP5L	ATP synthase, H ⁺ transporting, mitochondrial F0 complex, subunit g
X83218	ATP5O	ATP synthase, H ⁺ transporting, mitochondrial F1 complex, O subunit
D89052	ATP6V0B	ATPase, H ⁺ transporting, lysosomal 21kDa, V0 subunit c ¹¹
AA056747	ATP6V1A1	ATPase, H ⁺ transporting, lysosomal 70kDa, V1 subunit A
X76228	ATP6V1E1	ATPase, H ⁺ transporting, lysosomal 31kDa, V1 subunit E isoform 1
A1526089	COX5B	cytochrome c oxidase subunit Vb
N50520	COX7B	cytochrome c oxidase subunit VIIb
AC002400	NDUFAB1	NADH dehydrogenase (ubiquinone) 1, alpha/beta subcomplex, 1, 8kDa
AA203354	NDUFB3	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 3, 12kDa
AF047181	NDUFB5	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 5, 16kDa
AF050640	NDUFS2	NADH dehydrogenase (ubiquinone) Fe-S protein 2, 49kDa (NADH-coenzyme Q reductase)
J04973	UQCRC2	ubiquinol-cytochrome c reductase core protein II
L32977	UQCRCFS1	ubiquinol-cytochrome c reductase, Rieske iron-sulfur polypeptide 1
U17886	SDHB	succinate dehydrogenase complex, subunit B, iron sulfur (Ip)

Table 7d: DLPFC MD Genetic Ontology

Genbank Accession No.	Gene Name	Description
		transmission of nerve impulse
D11428	PMP22	<i>peripheral myelin protein 22</i>
AF049498	SCN2B	sodium channel, voltage-gated, type <i>II</i> , beta polypeptide
M82919	GABRB3	gamma-aminobutyric acid (GABA) A receptor, beta 3
X59834	GLUL	glutamate-ammonia ligase (glutamine synthase)
X81438	AMPH	amphiphysin (Stiff-Man syndrome with breast cancer 128kDa autoantigen)
M54927	PLP1	proteolipid protein 1 (<i>Pelizaeus-Merzbacher disease, spastic paraplegia 2, uncomplicated</i>)
Z11695	MAPK1	mitogen-activated protein kinase 1
U01824	SLC1A2	solute carrier family 1 (glial high affinity glutamate transporter), member 2
M32886	SRI	sorcin
U40215	SYN2	synapsin II
X15376	GABRG2	gamma-aminobutyric acid (GABA) A receptor, gamma 2
D26443	SLC1A3	solute carrier family 1 (glial high affinity glutamate transporter), member 3
X68194	SYPL	synaptophysin-like protein
U61849	NPTX1	neuronal pentraxin I
		neurogenesis
D11428	PMP22	<i>peripheral myelin protein 22</i>
U30930	UGT8	<i>UDP glycosyltransferase 8 (UDP-galactose ceramide galactosyltransferase)</i>
W128770	NP25	<i>neuronal protein</i>
M54927	PLP1	<i>proteolipid protein 1 (<i>Pelizaeus-Merzbacher disease, spastic paraplegia 2, uncomplicated</i>)</i>
D83017	NELL1	<i>NELL-like 1 (chicken)</i>
U34846	AQP4	<i>aquaporin 4</i>
Z70276	FGF12	<i>fibroblast growth factor 12</i>
M80899	AHNAK	<i>AHNAK nucleoprotein (desmoyokin)</i>
M57399	PTN	<i>pleiotrophin (heparin binding growth factor 8, neurite growth-promoting factor 1)</i>
AF016004	GPM6B	<i>glycoprotein M6B</i>
X70326	MLP	<i>MARCKS-like protein</i>
AF036268	SH3GL2	<i>SH3-domain GRB2-like 2</i>
M93426	PTPRZ1	<i>protein tyrosine phosphatase, receptor-type, Z polypeptide 1</i>
U61849	NPTX1	<i>neuronal pentraxin I</i>
M93650	PAX6	<i>paired box gene 6 (<i>aniridia, keratitis</i>)</i>

Table 7d cont'd

phosphoric ester hydrolase activity	
X55740	NT5E 5'-nucleotidase, ecto (CD73)
AF001601	PON2 paraoxonase 2
X68277	DUSP1 dual specificity phosphatase 1
L35594	ENPP2 ectonucleotide pyrophosphatase/phosphodiesterase 2 (autotaxin)
AB0133382	DUSP6 dual specificity phosphatase 6
L05147	DUSP3 dual specificity phosphatase 3 (vaccinia virus phosphatase VH1-related)
Z48541	PTPRO protein tyrosine phosphatase, receptor type, O
N36638	PPP1R3C protein phosphatase 1, regulatory (inhibitor) subunit 3C
AJ001612	PSPHL phosphoserine phosphatase-like
AF017786	PPAP2B phosphatidic acid phosphatase type 2B
U60644	PLD3 phospholipase D3
AF056490	PDE8A phosphodiesterase 8A
M93426	PTPRZ1 protein tyrosine phosphatase, receptor-type, Z polypeptide 1

Table 8: Selected Potential Druggable Targets

Genbank Accession No.	Gene Name	Target category	Description
AB020629	ABCA8	transporter	ATP-binding cassette, sub-family A (ABCI), member 8
X63575	ATP2B2	transporter	ATPase, Ca++ transporting, plasma membrane 2
X71490	ATP6V0D1	transporter	ATPase, H+ transporting, lysosomal 38kDa, V0 subunit d isoform 1
S74445	CRABP1	transporter	cellular retinoic acid binding protein 1
M34309	ERBB3	tyrosine kinase receptor	v-erb-b2 erythroblastic leukemia viral oncogene homolog 3 (avian)
M80634	FGFR2	tyrosine kinase receptor	fibroblast growth factor receptor 2 (bacteria-expressed kinase, keratinocyte growth factor receptor, craniofacial dysostosis 1, Crouzon syndrome, Pfeiffer syndrome, Jackson-Weiss syndrome)
M64347	FGFR3	tyrosine kinase receptor	fibroblast growth factor receptor 3 (achondroplasia, thanatophoric dwarfism)
AC004131	GPRC5B	GPCR	G protein-coupled receptor, family C, group 5, member B
X77196	LAMP2	ligand for cell adhesion molecule	lysosomal-associated membrane protein 2
U37122	ADD3	regulator of kinase	adducin 3 (gamma)
U66879	BAD	regulator of protease	BCL2-antagonist of cell death
AB007943	RAP1GAA1	regulator of kinase	RAP1, GTPase activating protein 1
AF060877	RGS20	regulator of GTPase	regulator of G-protein signalling 20
AL049538	RIN2	regulator of GTPase	Ras and Rab interactor 2
U58334	TP53BP2	regulator of protein degradation	tumor protein p53 binding protein, 2
U28964	YWHAZ	regulator of enzyme	tyrosine 3-monooxygenase/triptophan 5-monooxygenase activation protein, zeta polypeptide
J04046	CALM3	kinase	calmodulin 3 (phosphorylase kinase, delta)
AF112471	CAMK2B	kinase	calcium/calmodulin-dependent protein kinase (CaM kinase) II beta
D50310	CCNI	kinase	cyclin I
U37143	CYP2J2	monooxygenase	cytochrome P450, family 2, subfamily J, polypeptide 2

Table 8, cont'd

histone deacetylase 4			
AB006626	HDAC4	enzyme	histone deacetylase 4
X57206	ITPKB	kinase	inositol 1,4,5-trisphosphate 3-kinase B
MI12267	OAT	enzyme	ornithine aminotransferase (gyrate atrophy)
Y10275	PSPH	enzyme	phosphoserine phosphatase
AI001612	PSPHL	enzyme	phosphoserine phosphatase-like
AL080061	CLIC4	channel	chloride intracellular channel 4
L08485	GABRA5	channel	gamma-aminobutyric acid (GABA) A receptor, alpha 5
AF016917	GABRD	channel	gamma-aminobutyric acid (GABA) A receptor, delta
L19182	IGFBP7	regulator of receptor ligand	insulin-like growth factor binding protein 7
M29273	MAG	myelination	myelin associated glycoprotein
X76220	MAL	myelination	mal, T-cell differentiation protein
Z224725	MIG2	signal transduction	mitogen inducible 2
AB018342	MYO10	partner for calmodulin-like protein	myosin X
AB018305	SPON1	axon growth guidance	spondin 1, (f-spondin) extracellular matrix protein